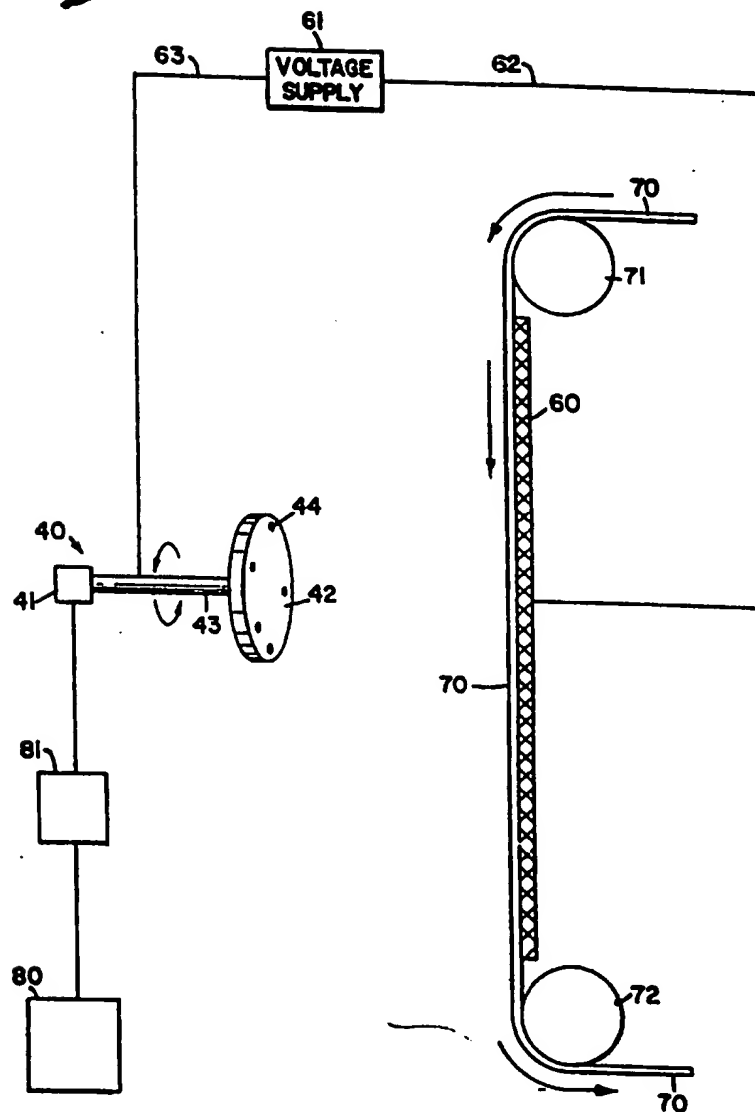
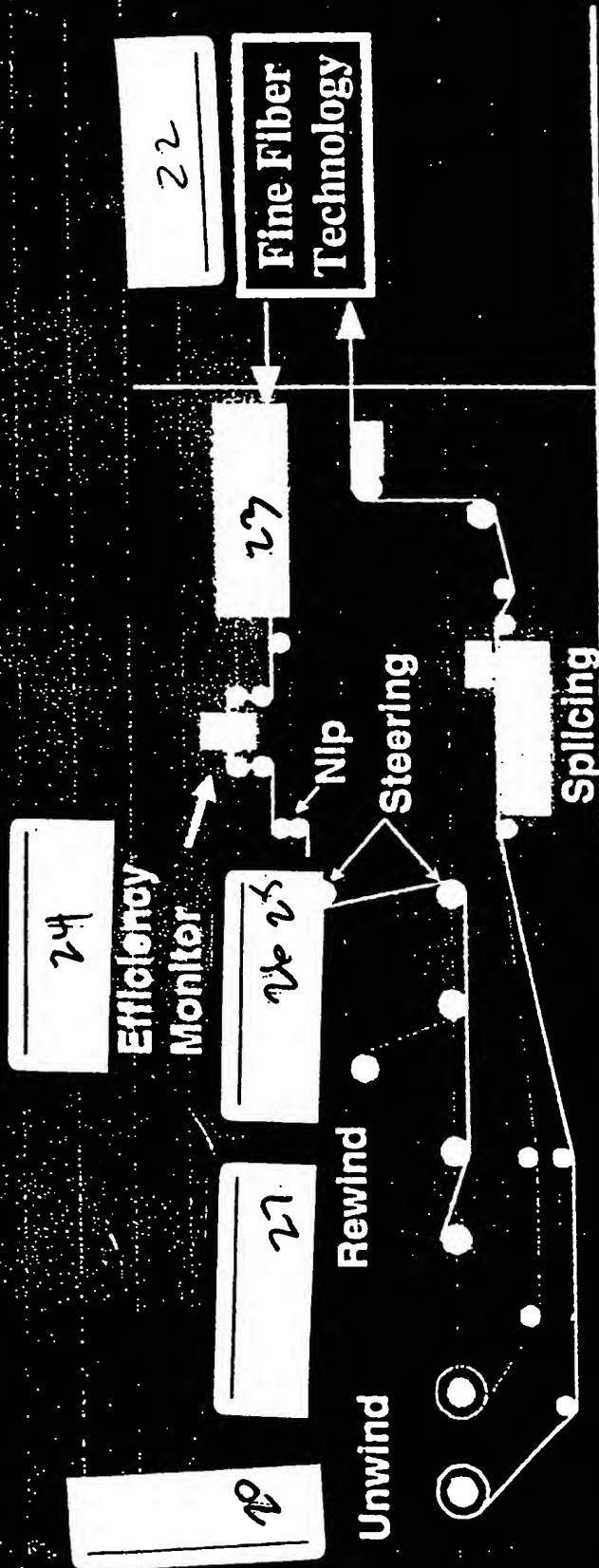


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FIG. 1



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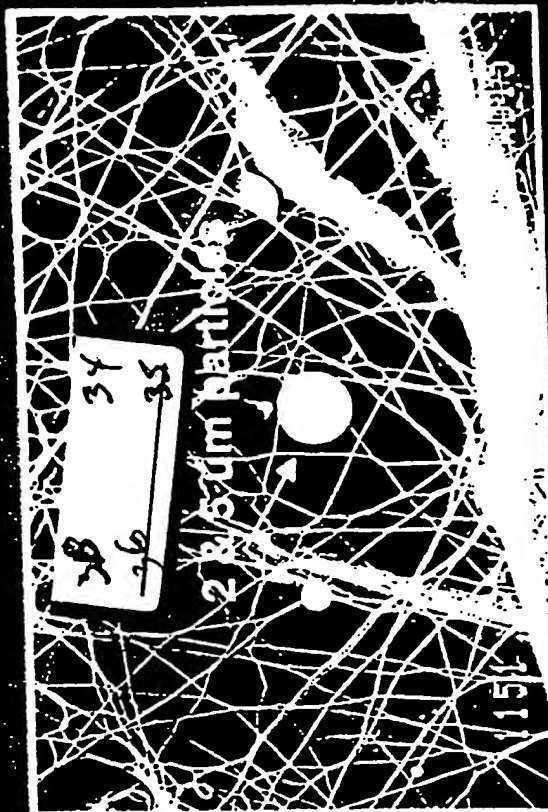
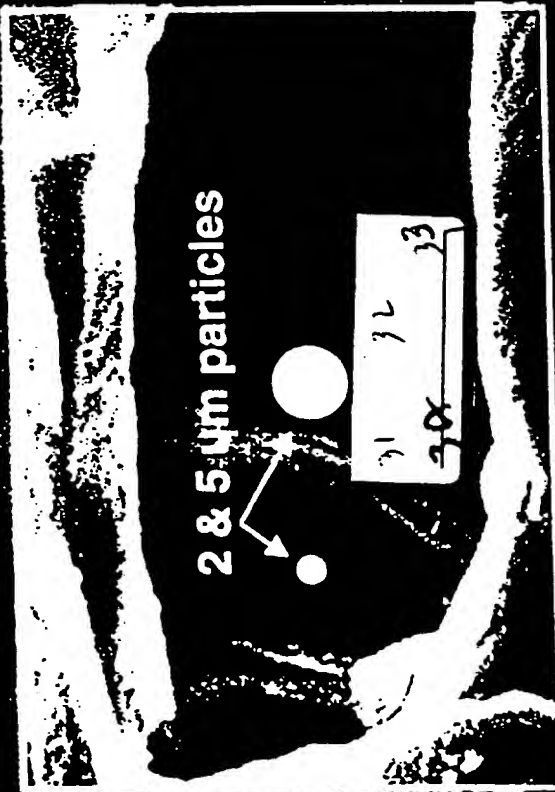
28

24

FM 2

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ACS

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Katz Analytical Services, Inc.
1191-20C-3, Sample #: 1, Angle: 65

XPS Multiplex

O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

6A
Fig 4. ESCA O 1s Spectra for Samp As Spec

Min: 0 Max: 6658

Curve Fit Summary

Goodness of Fit: 92.77

Iterations: 2

Position Intensity FWHM % Gauss Area

1 531.04 8627 1.46 98.48% 10320 87.4% O-C

2 532.71 2822 1.86 100.00% 4982 32.6% O-C

N(E)

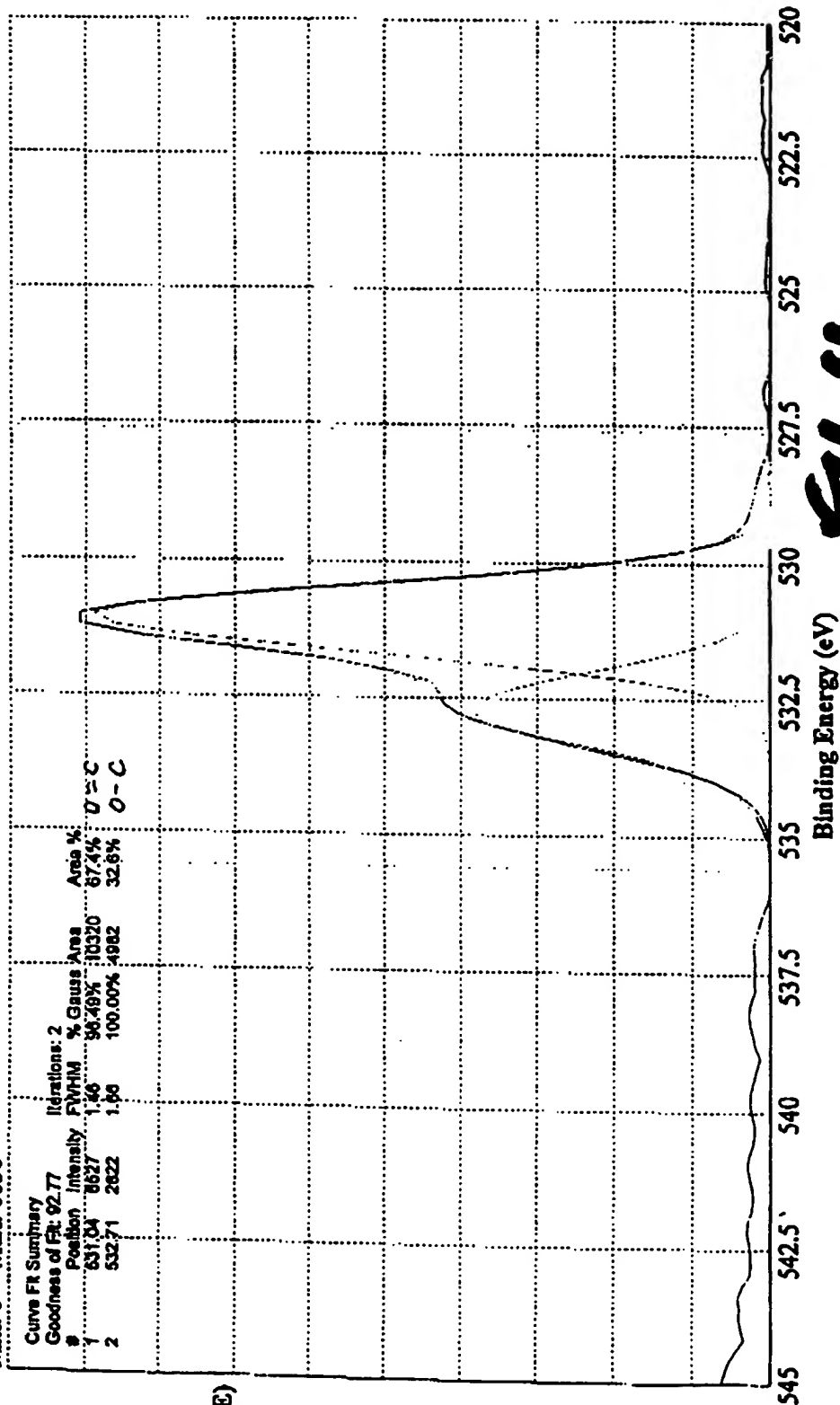


Fig 4

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100250 54572860

Katz Analytical Services, Inc.
1191-20C-4, Sample #: 1, Angle: 65

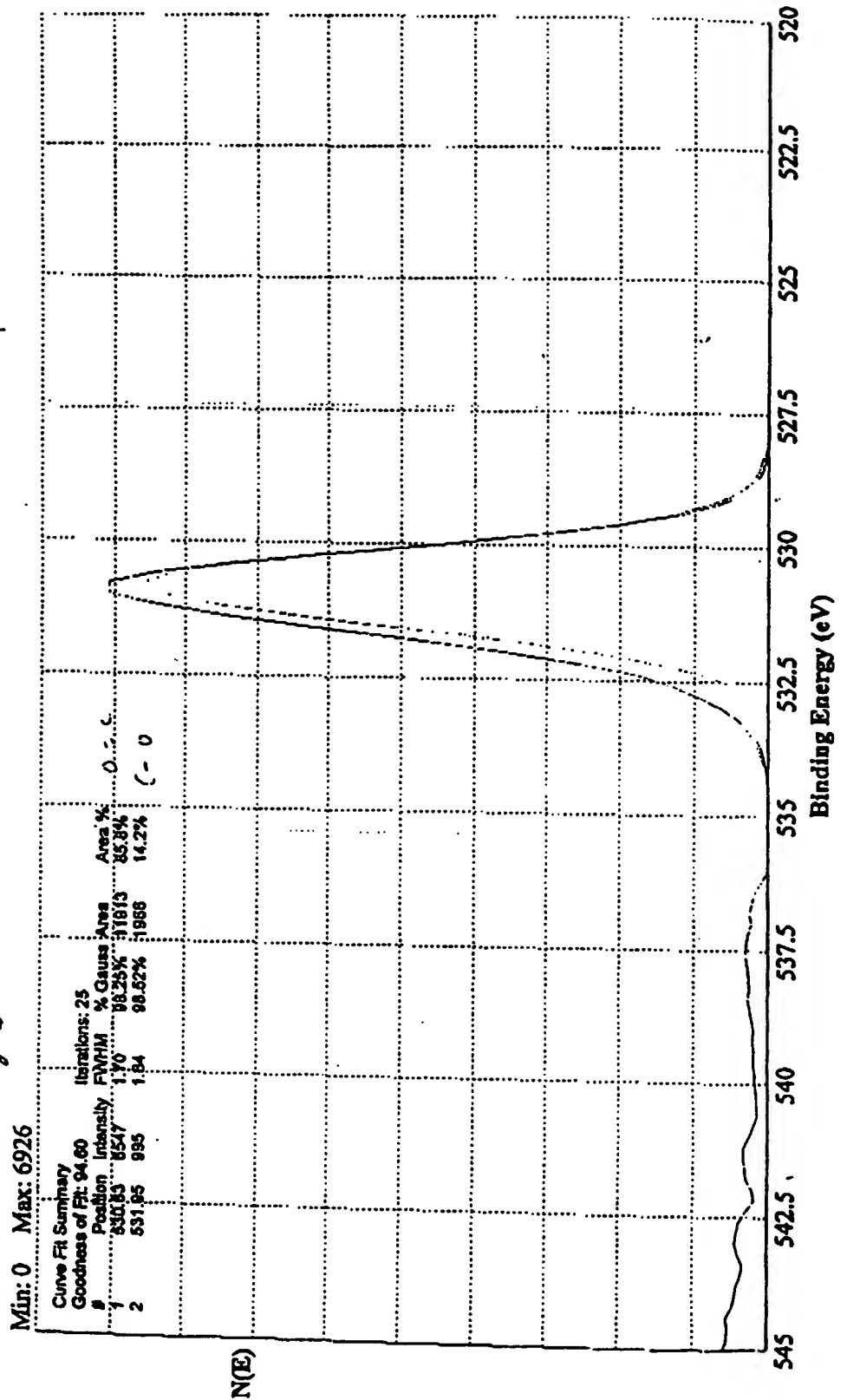
XPS Multiplex

O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig B. ESCA O 1s Spectra for Heat-Treated Sample 6A



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60250 52572860

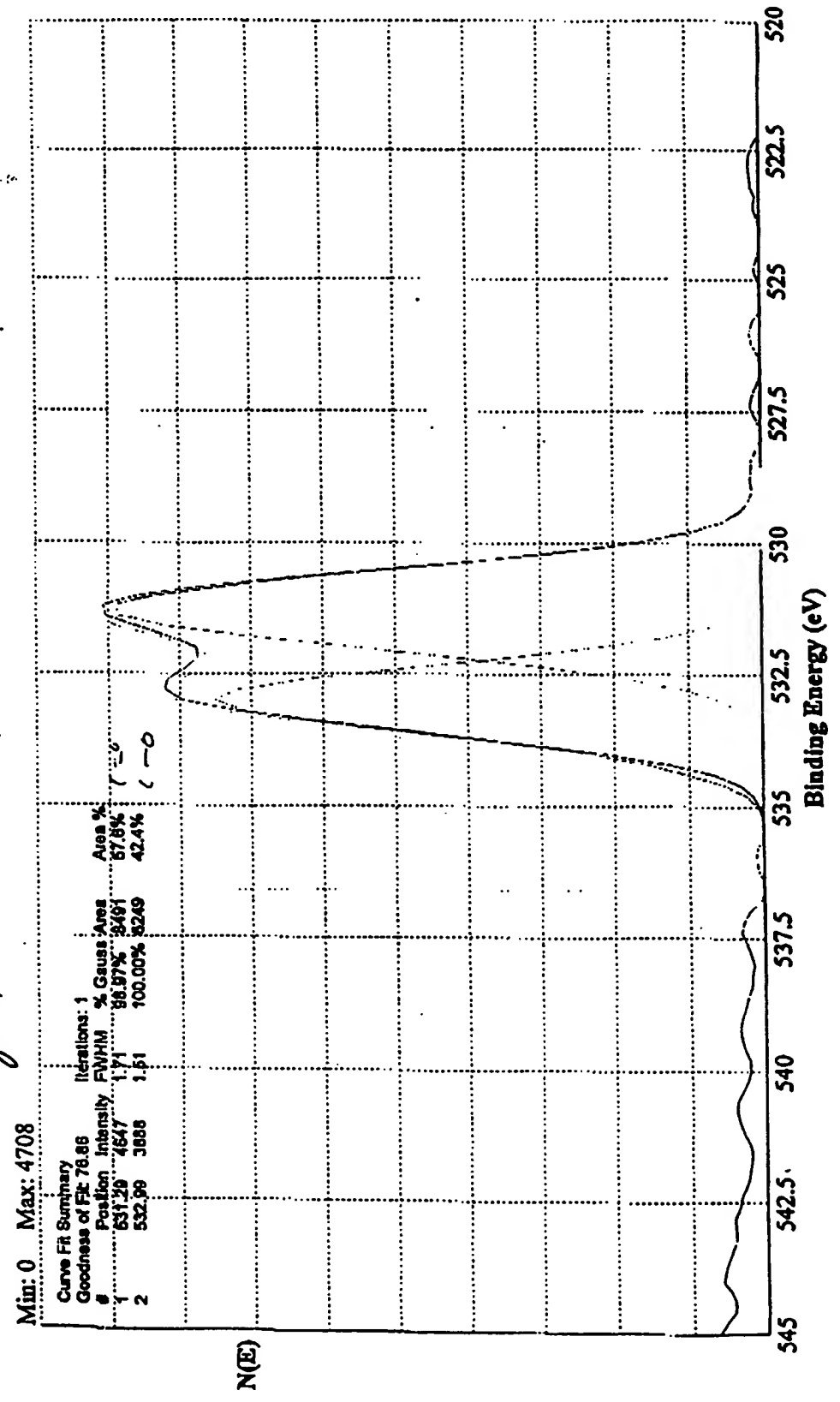
Katz Analytical Services, Inc.
1191-20C-5, Sample #: 1, Angle: 65

XPS Multiplex

O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 12
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig. B, ESCA O 1s Spectra for As-Span Example



Katz Analytical Services, Inc.
1191-20C-6, Sample #: 1, Angle: 65

XPS Multiplex

O 1s

EV/Step: 0.2 eV, Time/Step: 50 mSec, Sweeps: 16

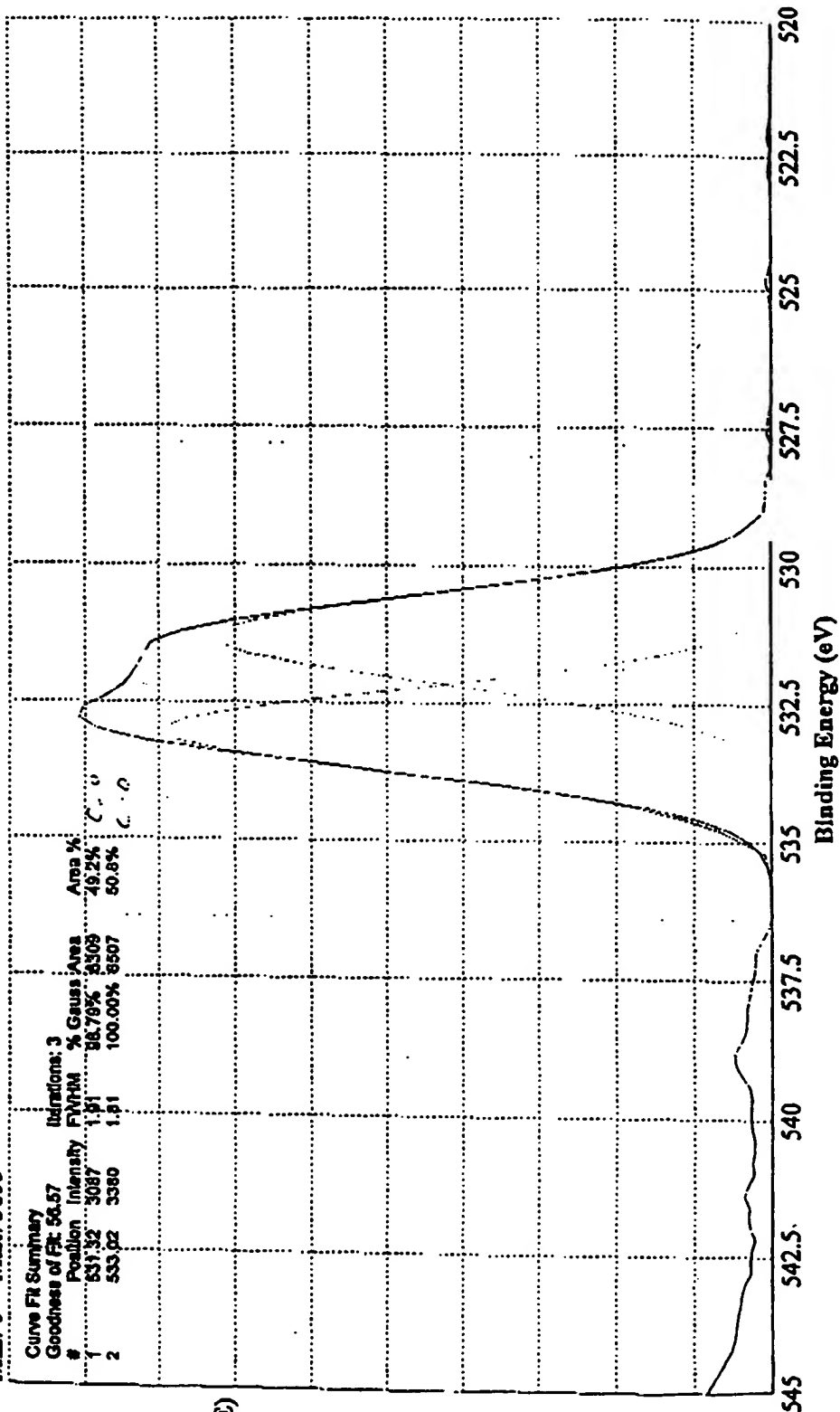
Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 9 ESCA O1s Spectra for Heat-Treated Sample 6B

Min: 0 Max: 3855

Curve Fit Summary			
Goodness of Fit: 56.57			
Iterations: 3			
#	Position	Intensity	% Gauss Area
1	531.32	3087	1.91
2	533.02	3380	1.81
			100.00%
			8507
			46.2%
			50.8%

N(E)



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Katz Analytical Services, Inc.
1191-20C-3, Sample #: 1, Angle: 65

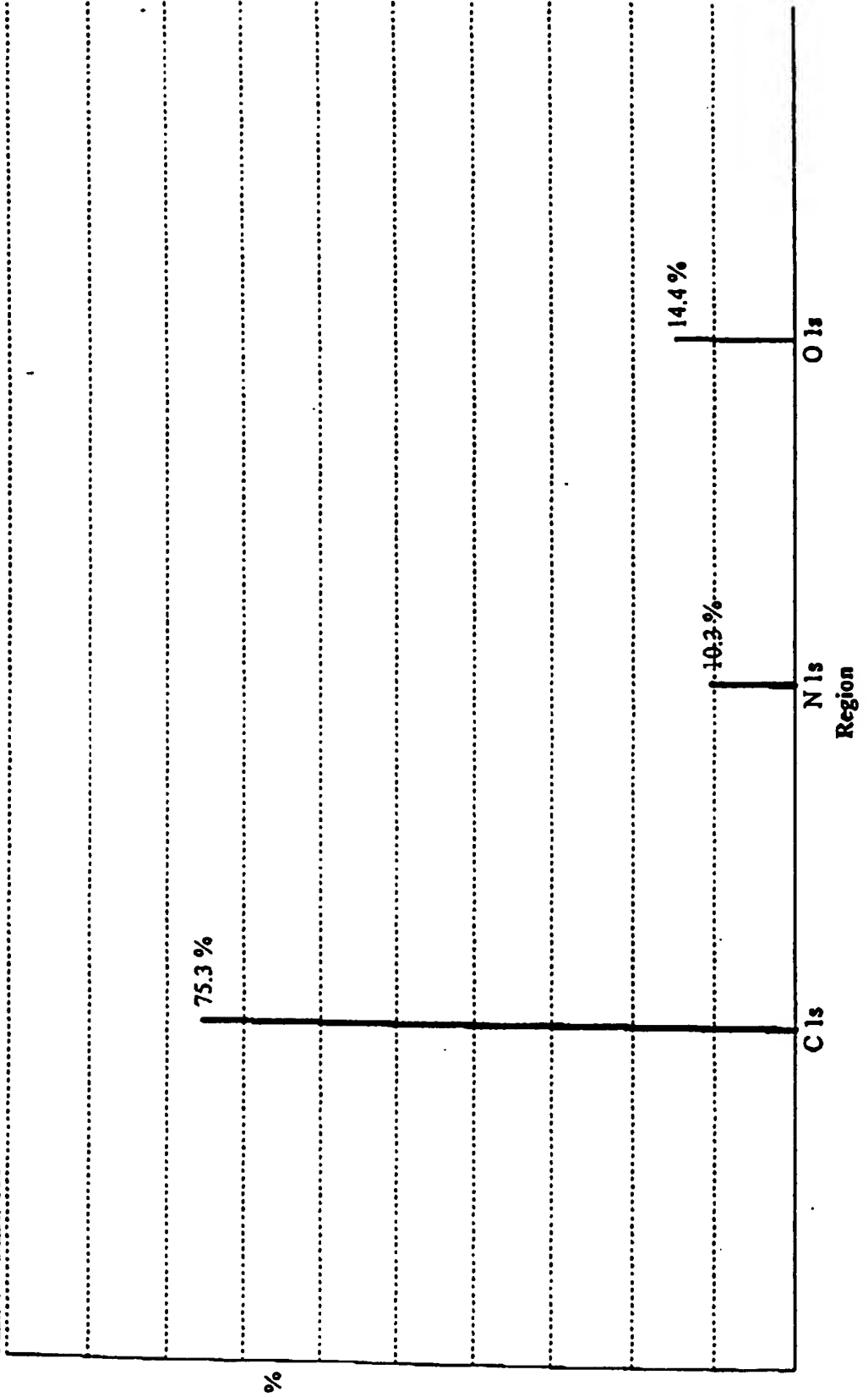
[REDACTED]

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 8. ESCA Multiplex for As-Spun Sample 16A

Min: 0 Max: 100



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Katz Analytical Services, Inc.
1191-20C-4, Sample #: 1, Angle: 65

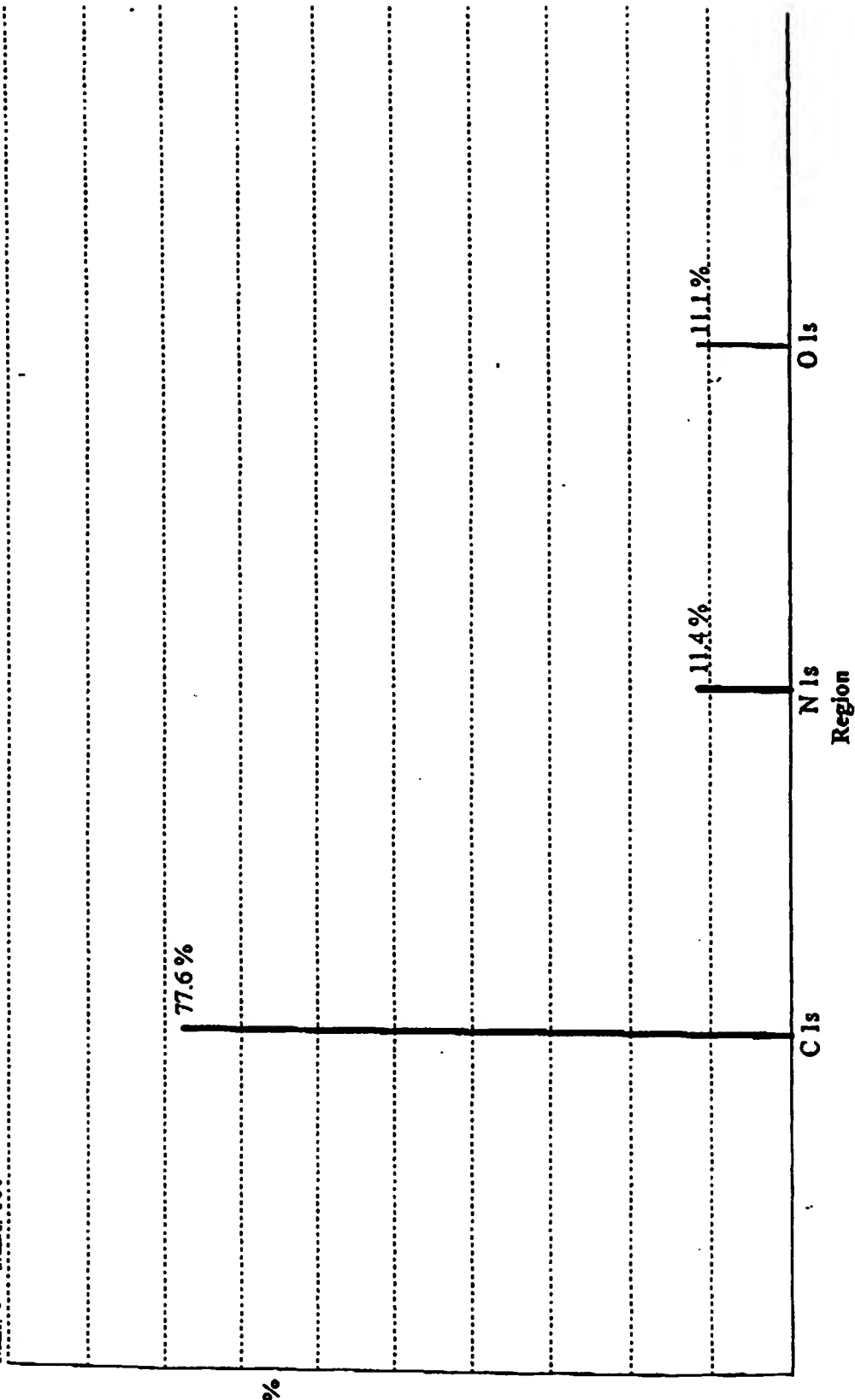
XPS Multipler

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 9.

ESCA Multipler for Heat Treated Sample 6A

Min: 0 Max: 100



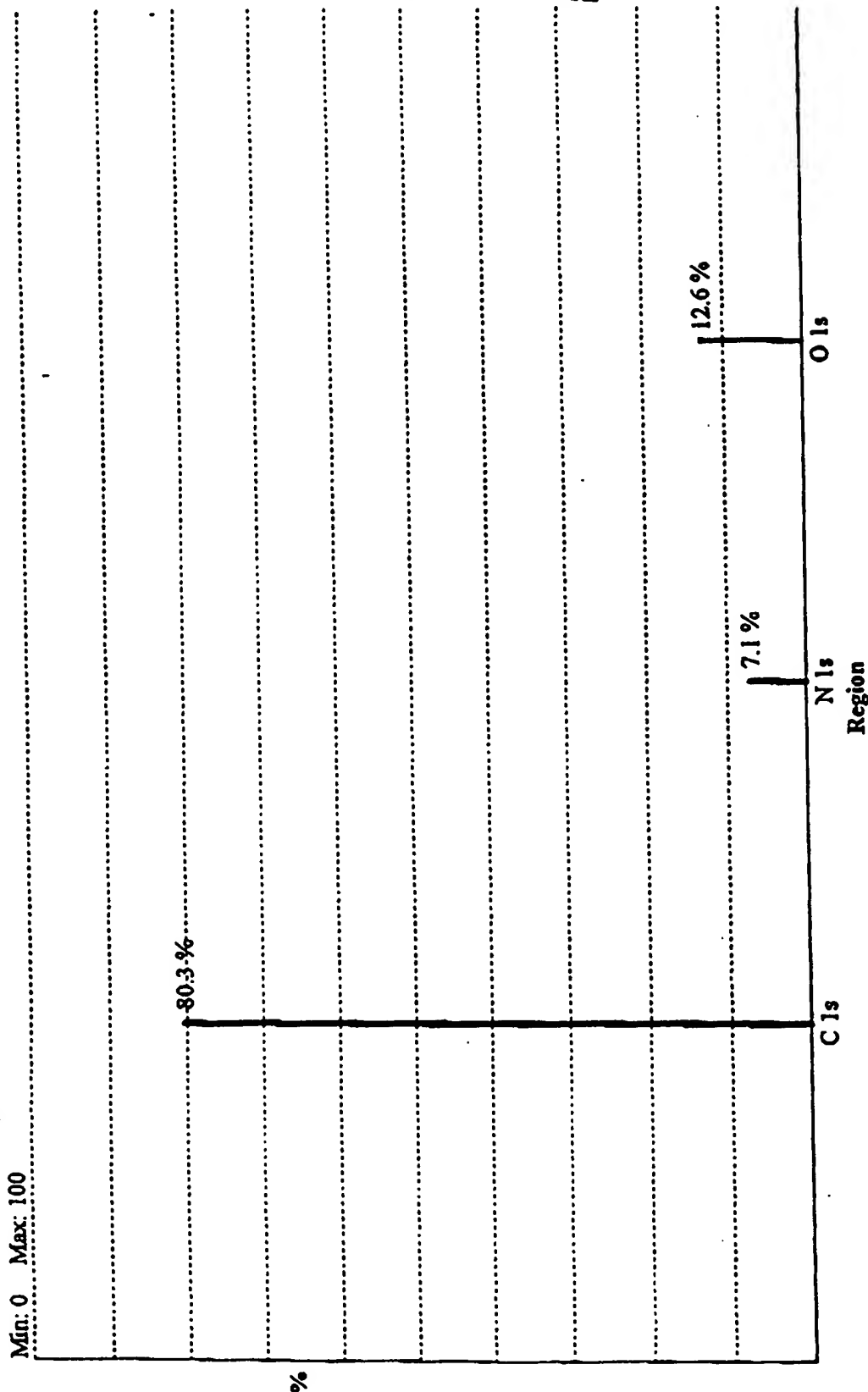
Katz Analytical Services, Inc.
1191-20C-5, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 10

ESCA Multiplex for As-Spun Sample 6B



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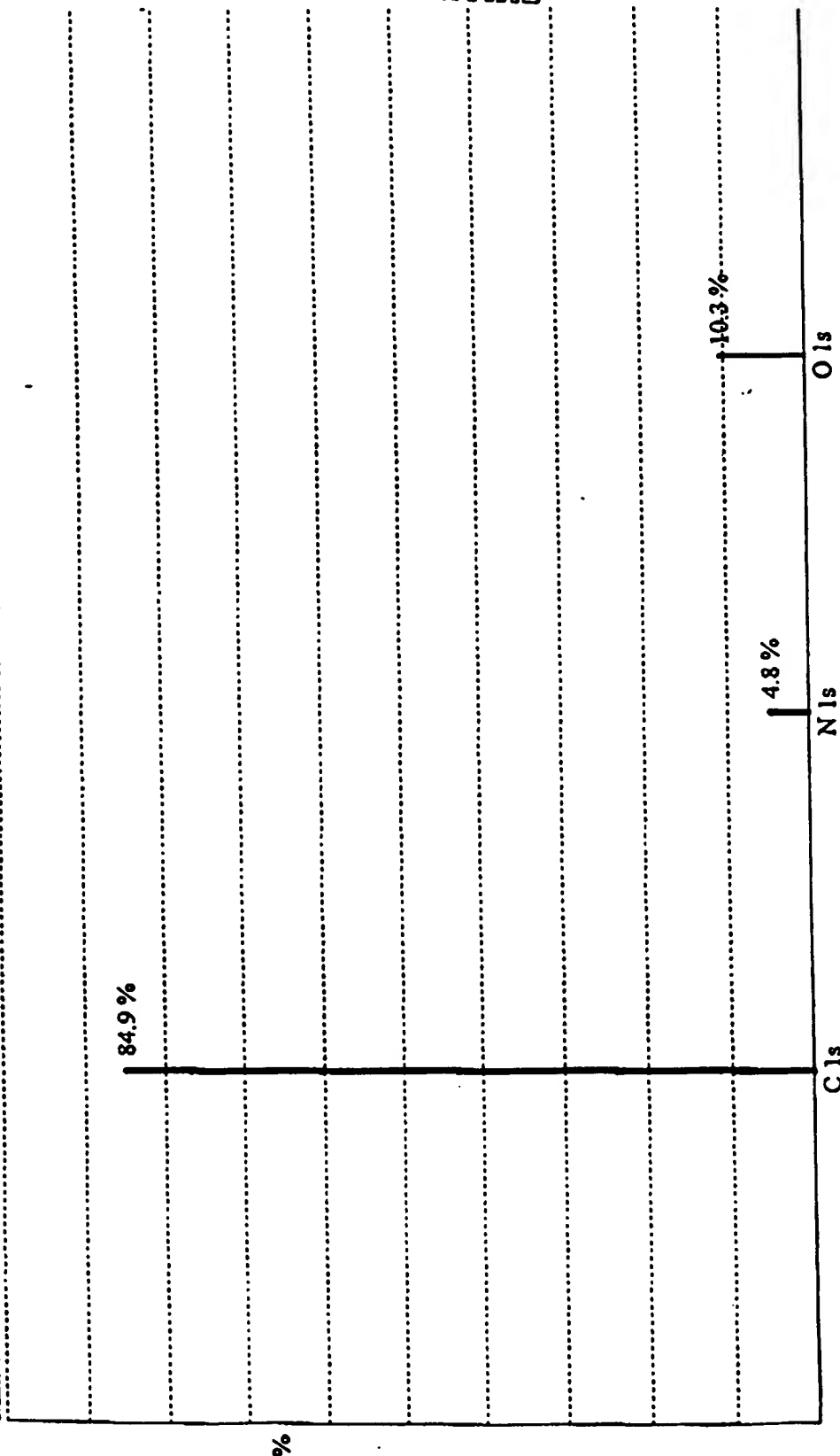
Katz Analytical Services, Inc.
1191-20C-6, Sample #: 1, Angle: 65

XPS Multiplex

Source: Al, Pass Energy: 71.55 eV, Work Function: 4.1 eV

Fig 11 ESCA Multiplex for Heat-Treated Sample 6B

Min: 0 Max: 100



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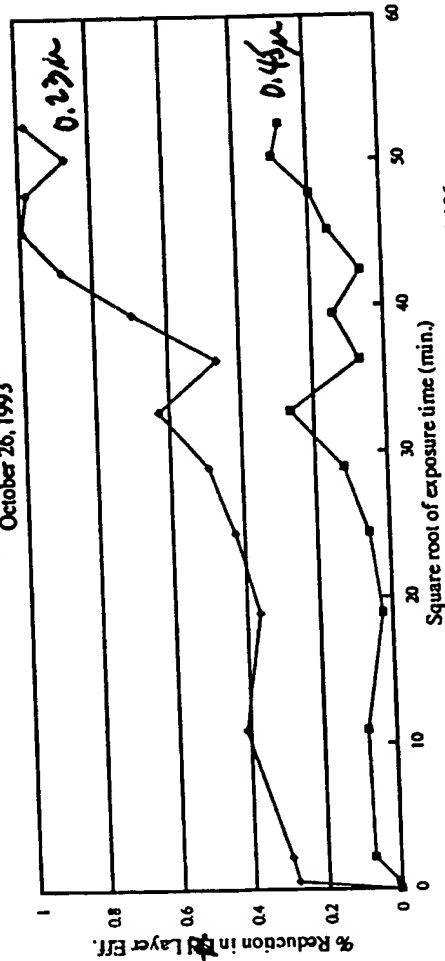
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Ultra Web Long Sock October 26, 1993

Hot
with
sock
in
foot
method



fine
fiber

Fig 12

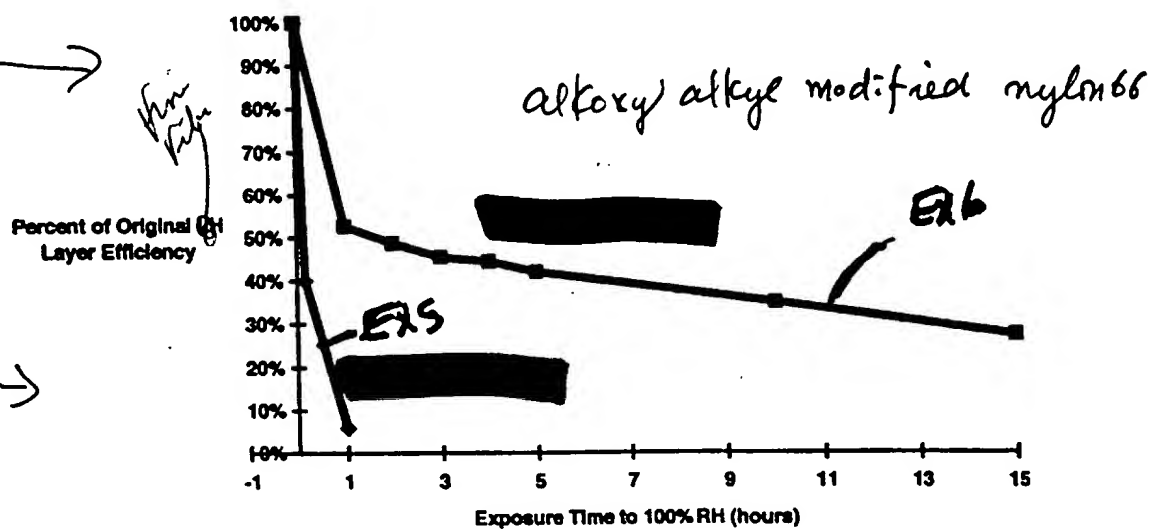
SECRET



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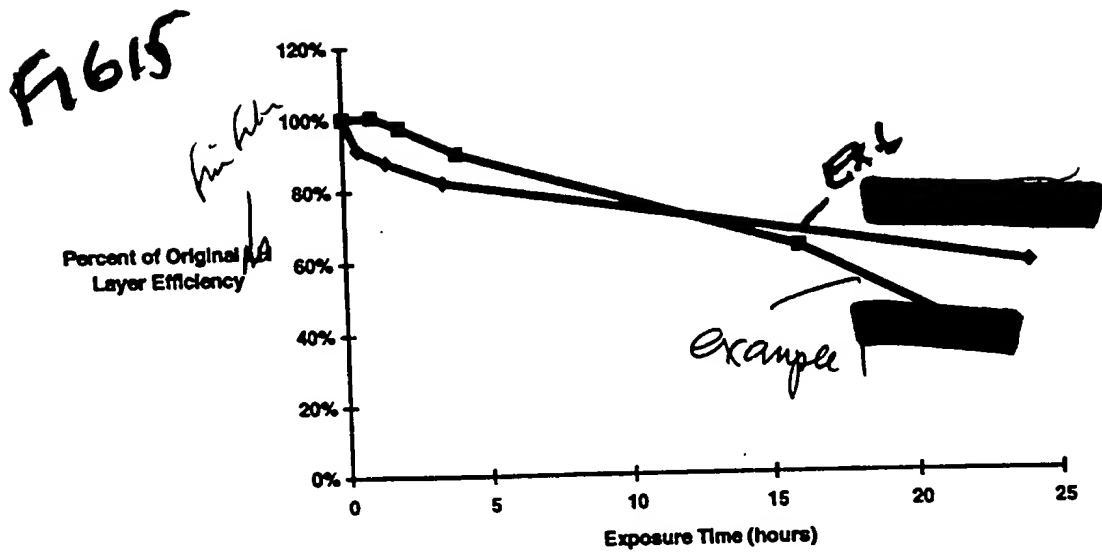
FL 14

Fine Fiber on the THC System
160 F at 100% RH



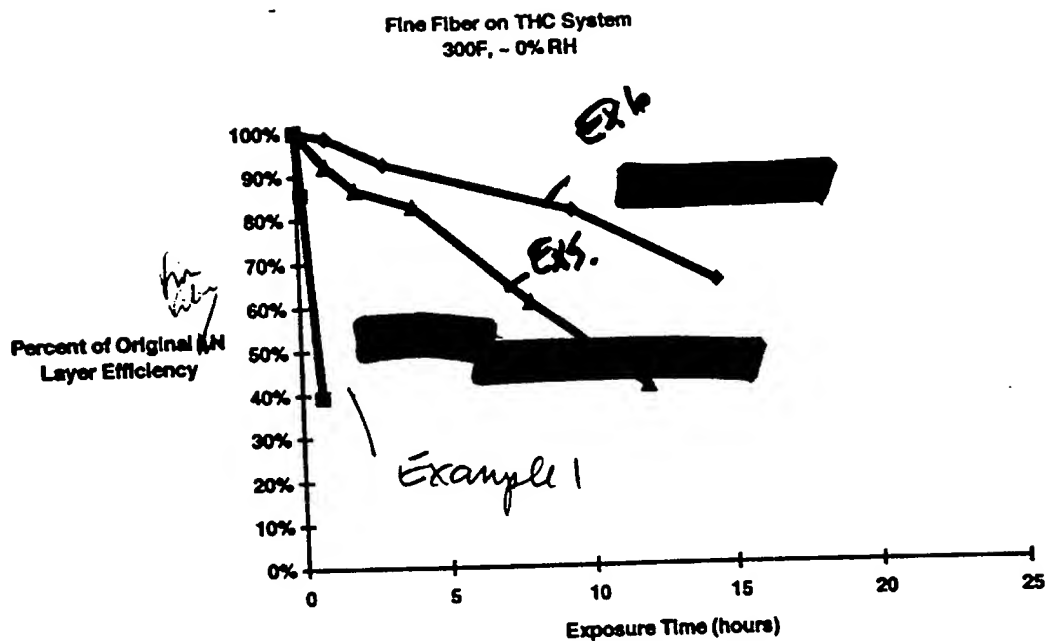
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Fine Fiber on THC System
250F, - 0% RH



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Fig 16



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10650 52572550

1st Me H

Sample: 1191-19C-6

Size: 9.1500 mg

Method: Polymer Samples

Comment: Material characterization

DSC nylon

100% modified 66

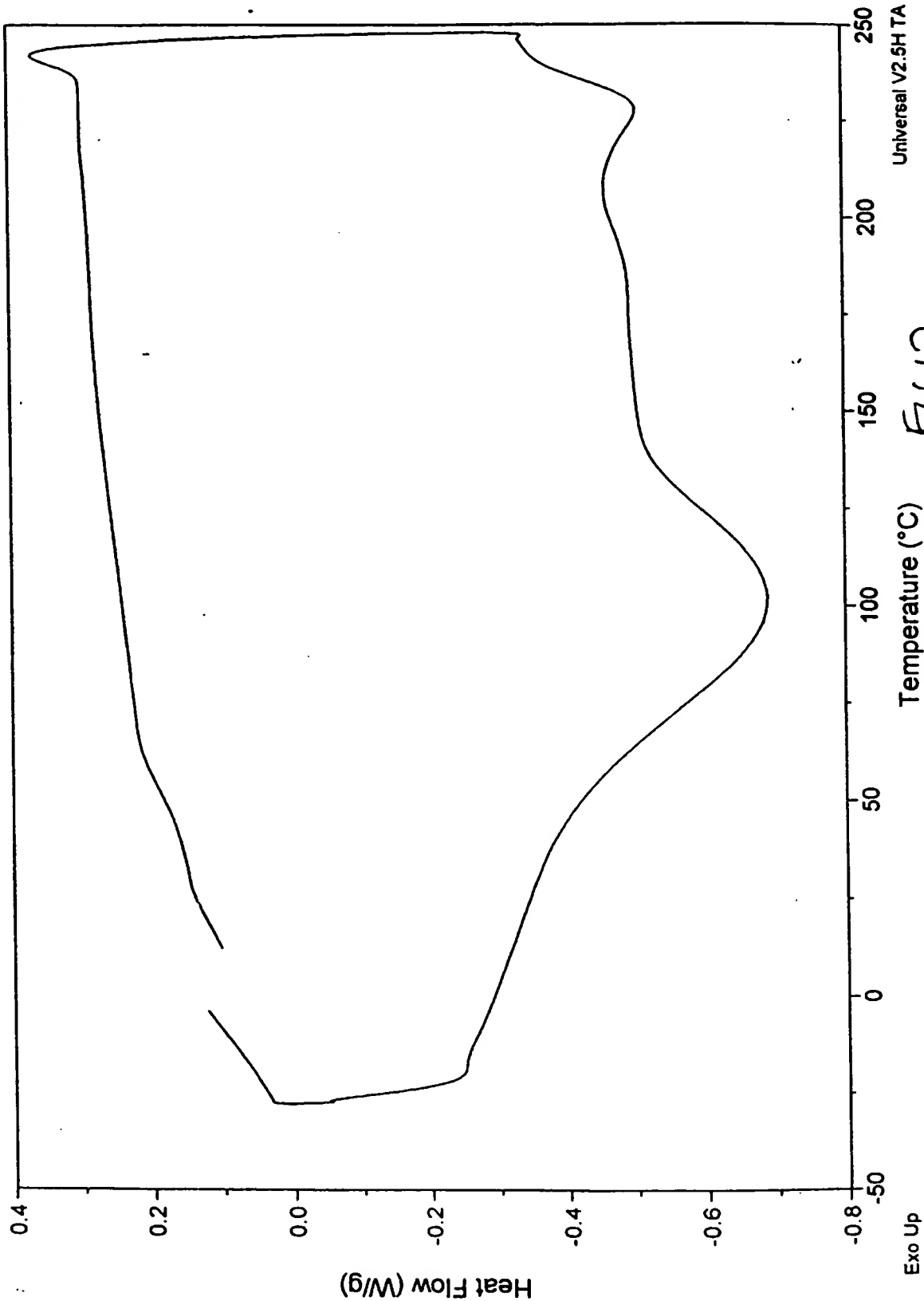


Fig 17

1191-19C-6

Sample: 1191-19C-6

Size: 9.1500 mg

Method: Polymer Samples

Comment: Material characterization

2nd Melt

DSC

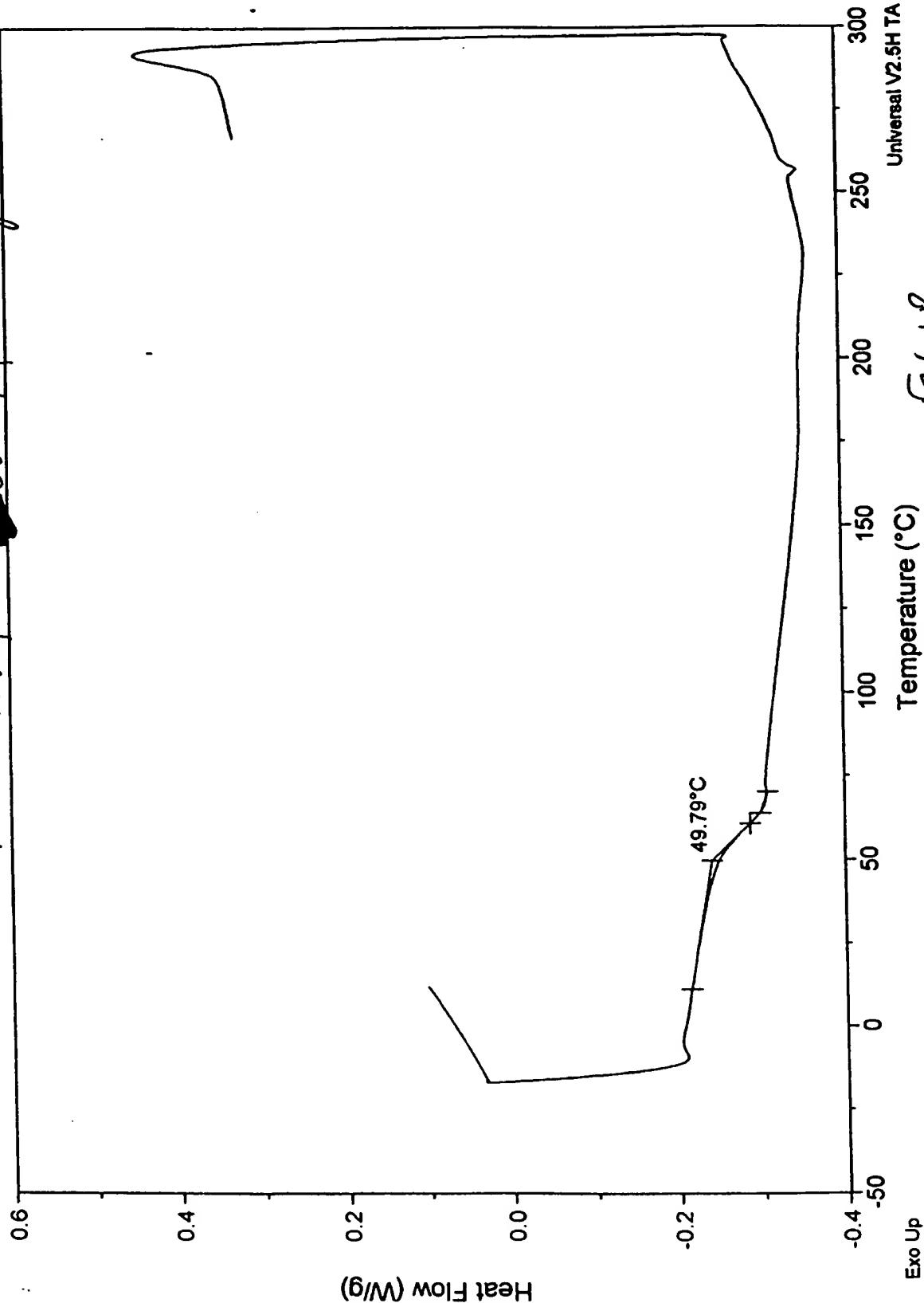
nylon

100% modified

66

- After Fully Cross-linked

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Universal V2.5H TA Instruments

Temperature (°C)

Fig 18

Exo Up

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1191-19C-7

1st Melt

DSC

Example 6

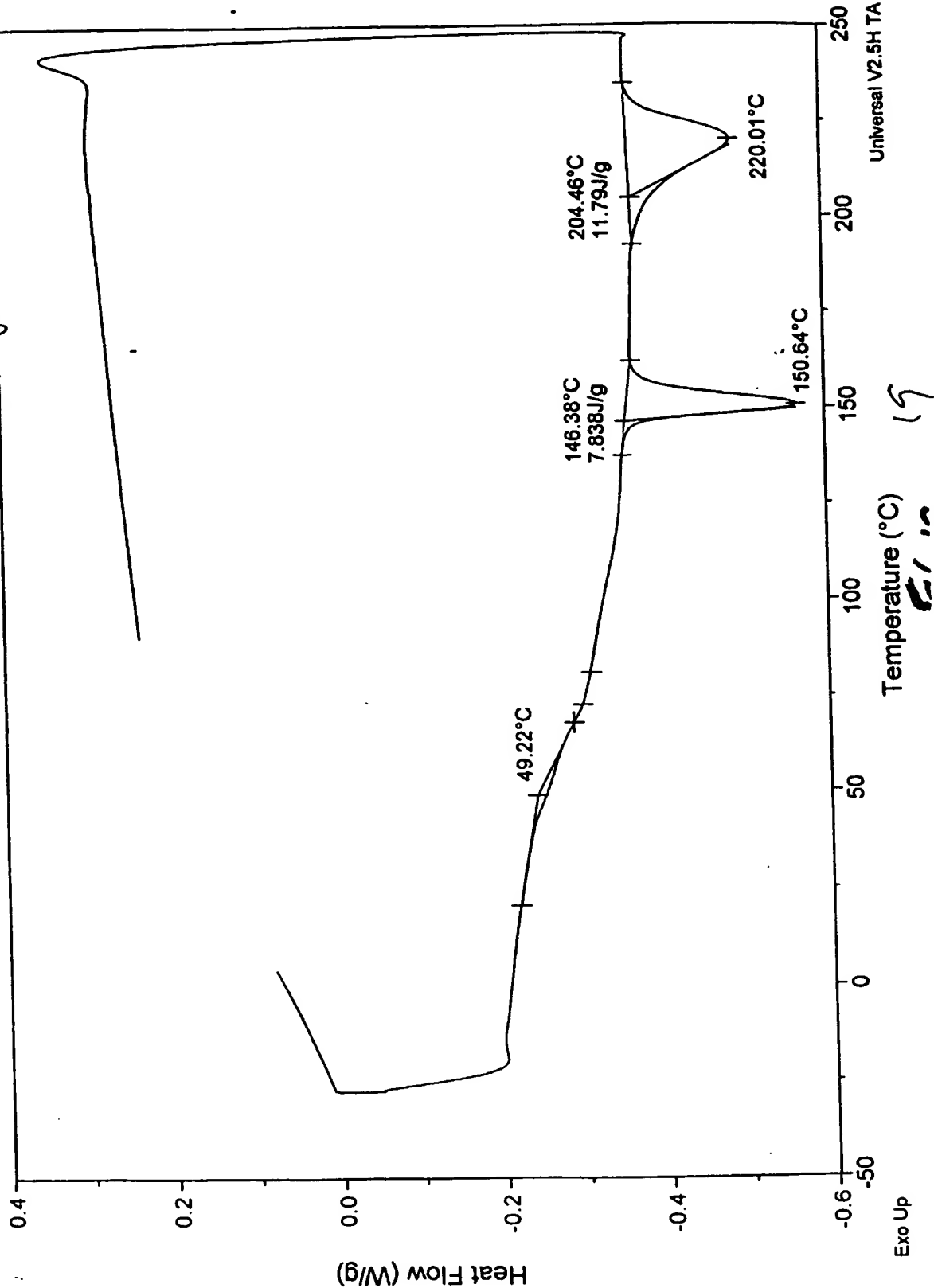
Sample: 1191-19C-7

Size: 9.8400 mg

Method: Polymer Samples

Comment: Material characterization

70% modified 66: 30% co-polyamide



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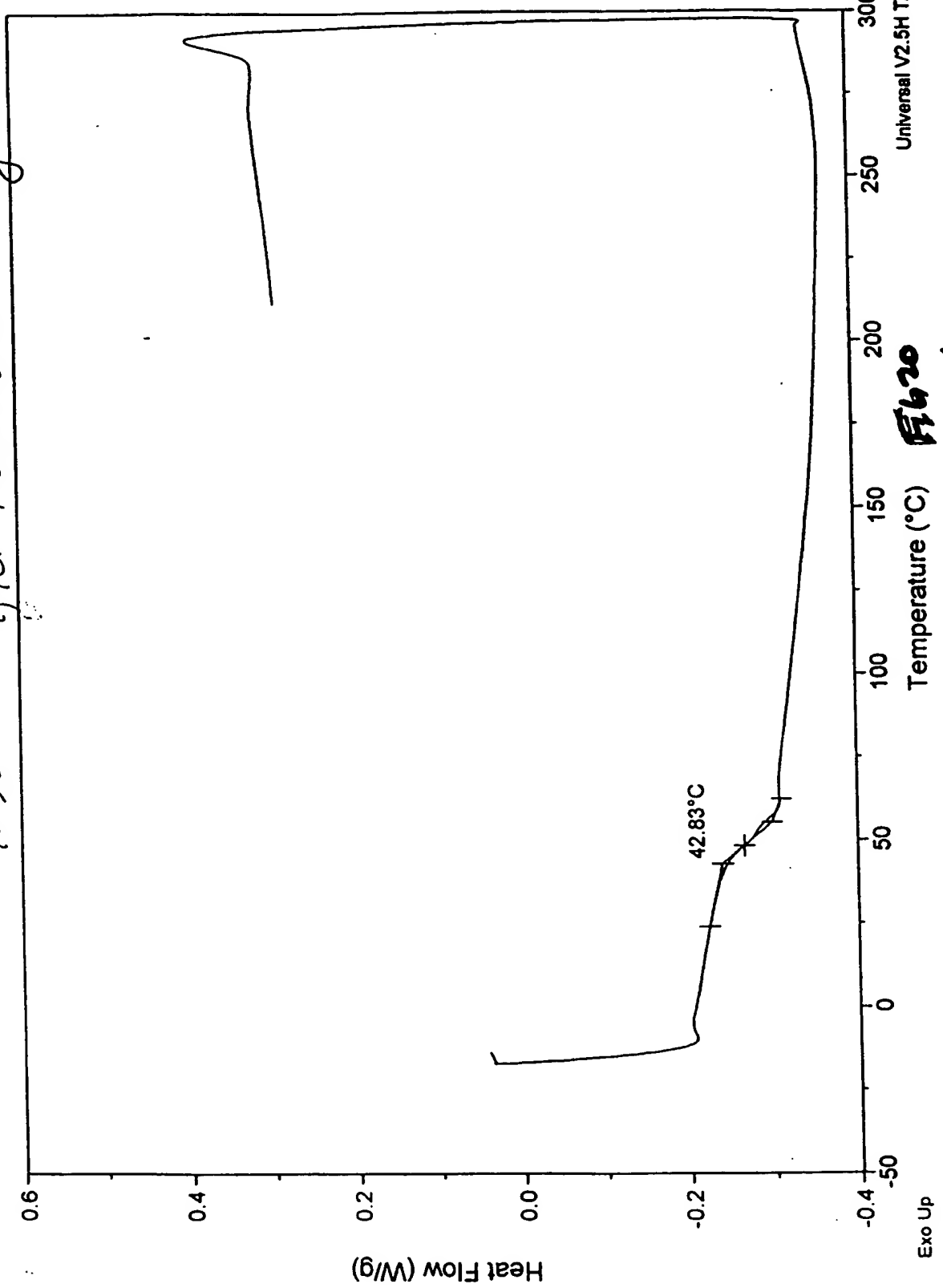
Sample: 1191-19C-7
Size: 9.8400 mg
Method: Polymer Samples
Comment: Material characterization

Sample 6

2nd Melt
DSC

70:30

after Full Cross-linking



Universal V2.5H TA Instruments

Fig 20

FIG. 21

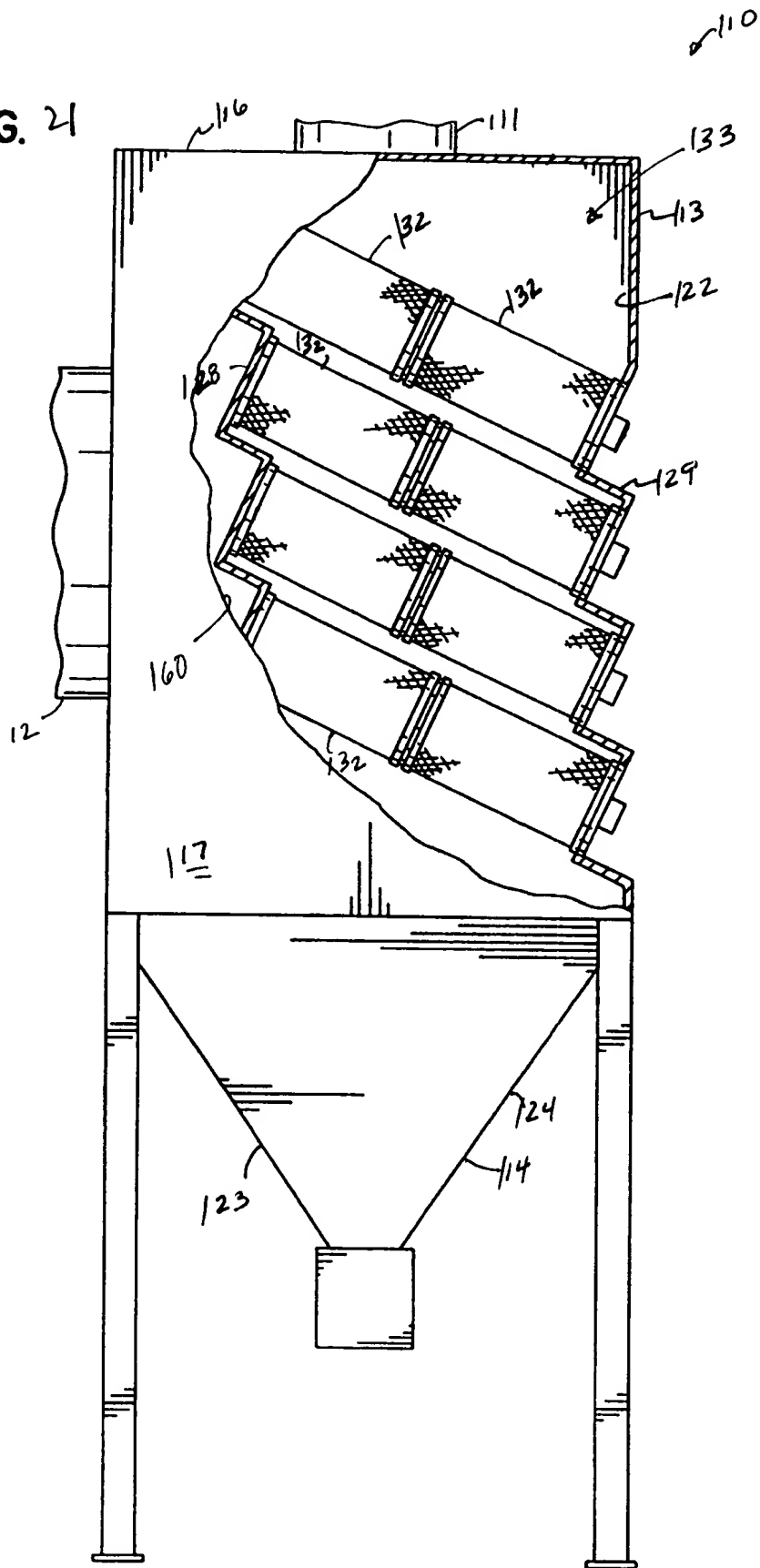
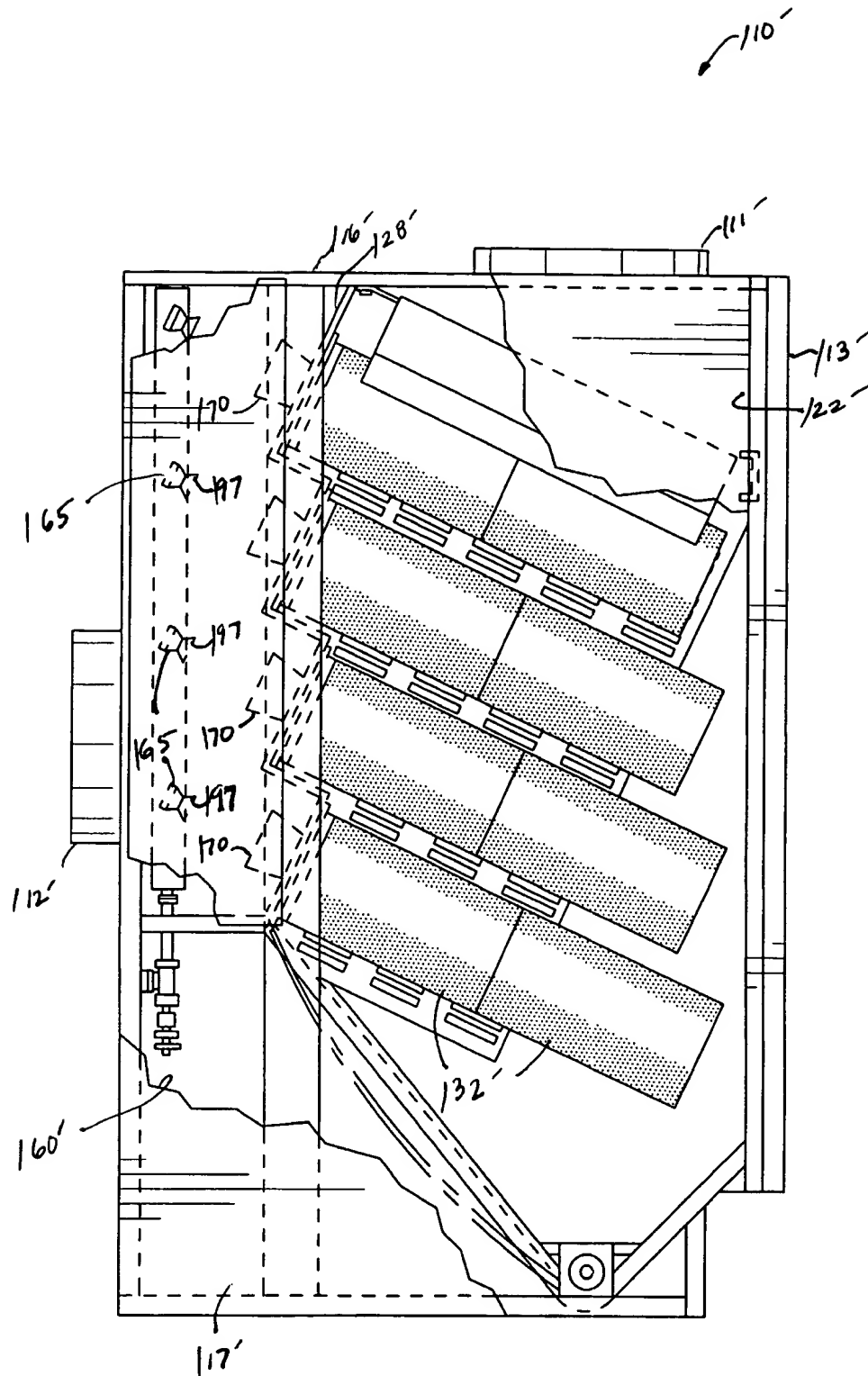


FIG. 22



[illegible]

FIG. 23

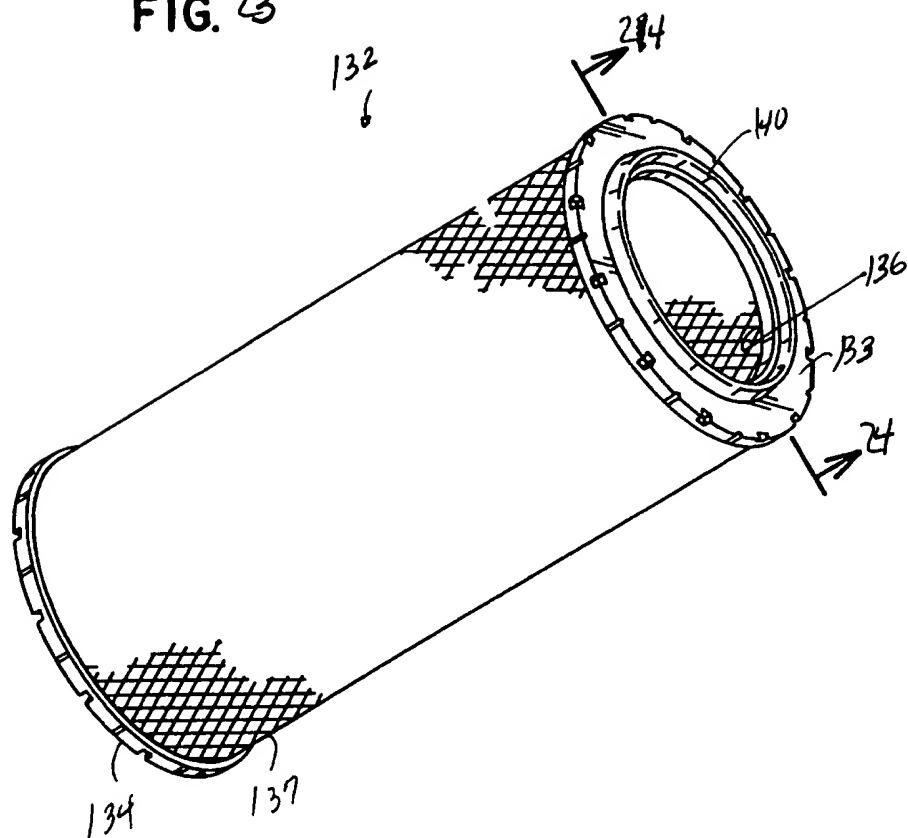


FIG. 25

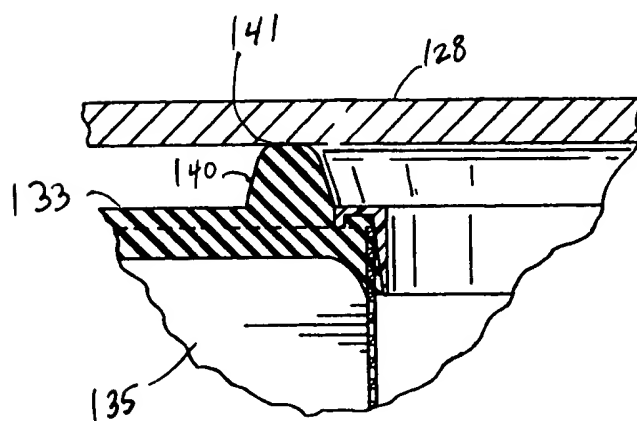


FIG. 24

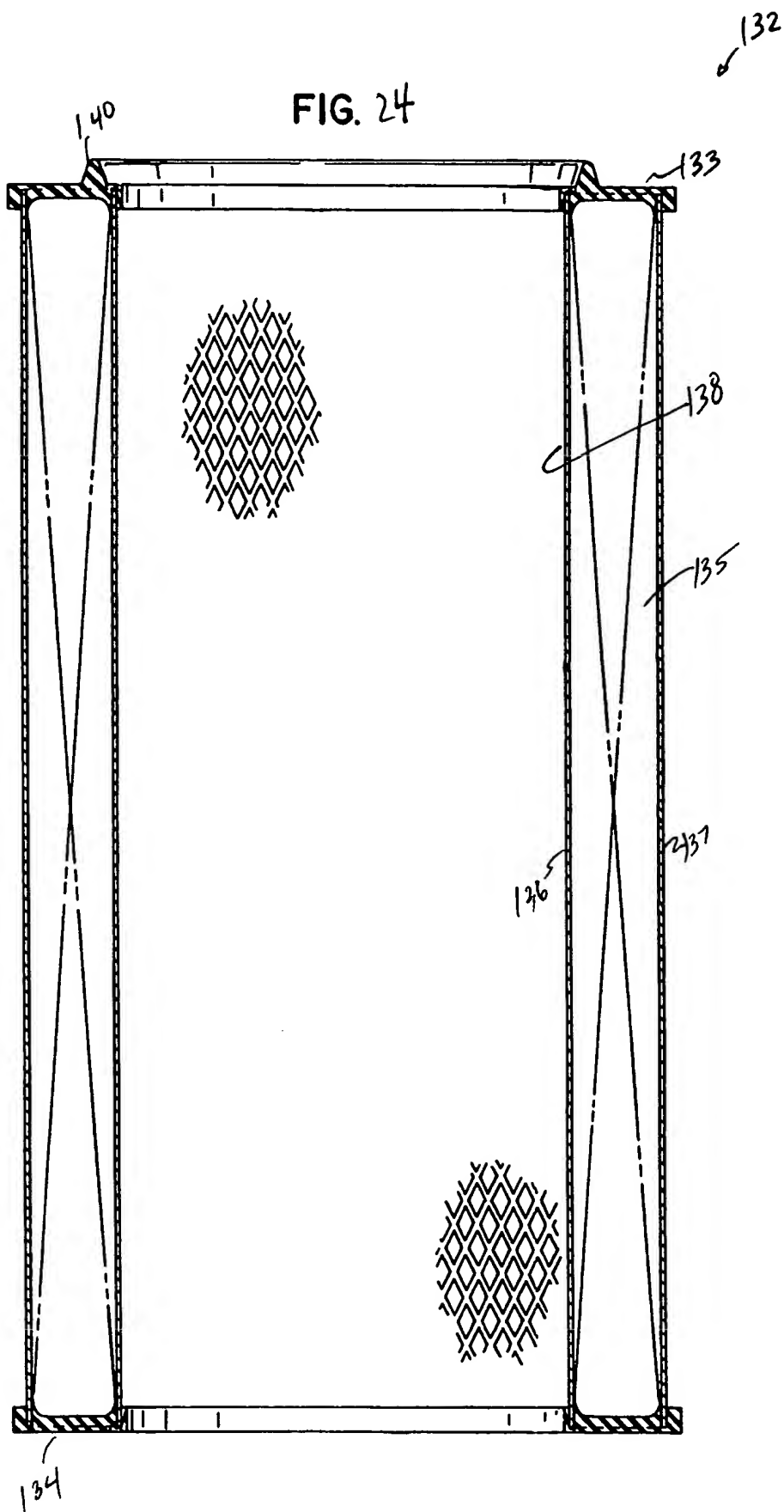


FIG. 26

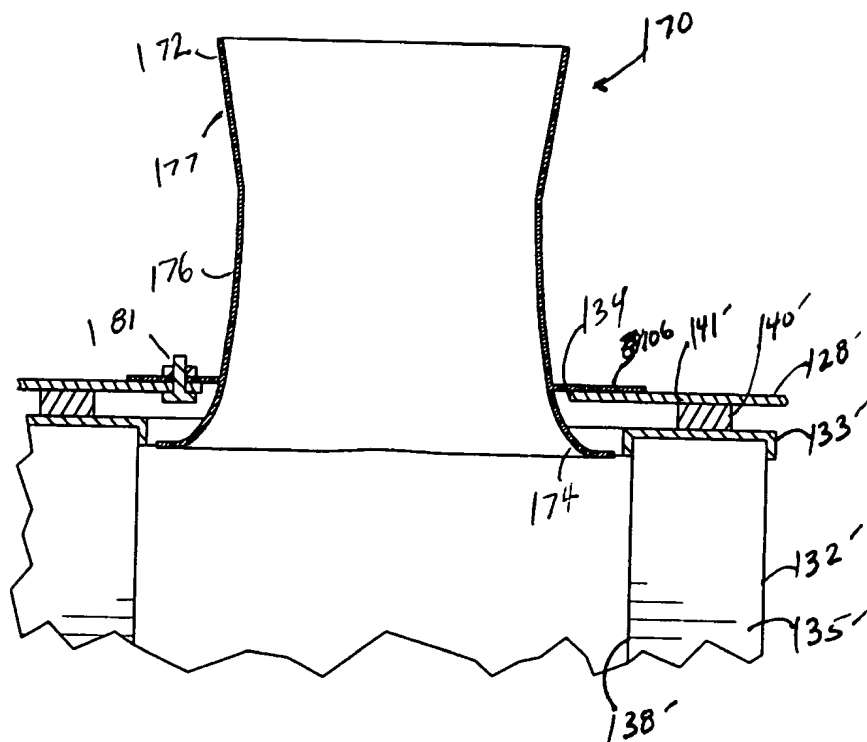
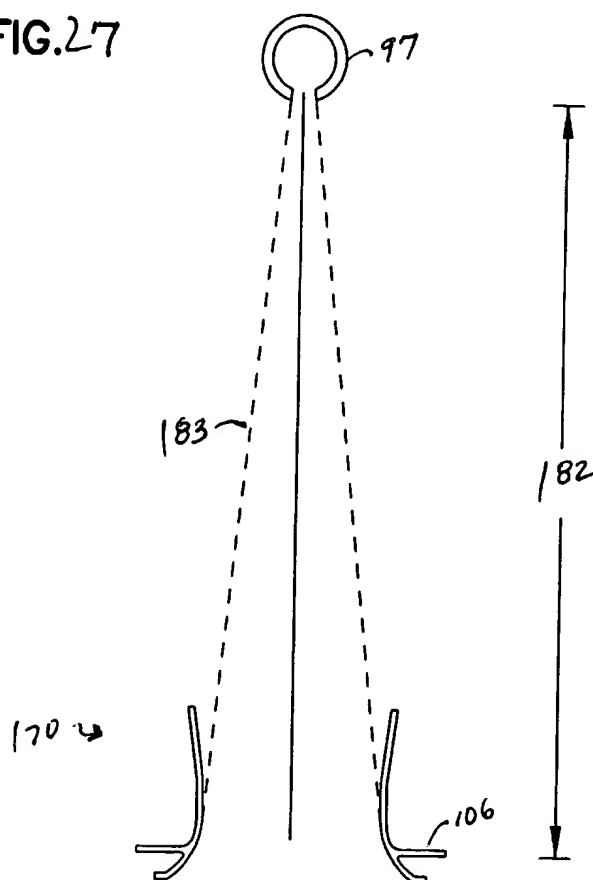


FIG. 27



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